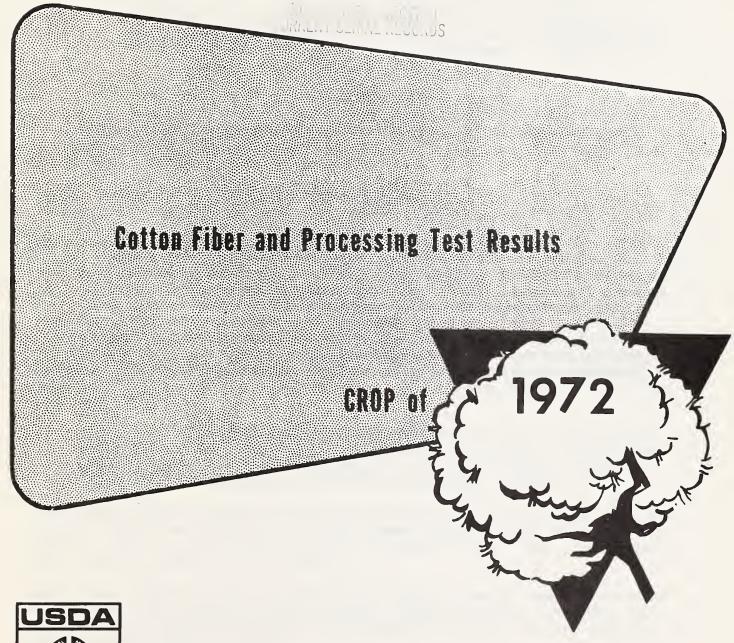
## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



24 37:

No French Comment





Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 November 10, 1972

This is the seventh of a series of reports of fiber and processing test results from the 1972 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1971", April 1972. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, P. O. Box 17723, Memphis, TN 38117.

## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1972

## Discussion of Test Results

Cotton testing laboratories of the Agricultural Marketing Service, USDA, report that average fiber properties for all medium staple samples tested through November 3 to be about the same except for stronger fibers at both zero and 1/8" gage. Average spinning potential yarn number is higher than last year.

Southwest short staple samples tested show longer, finer and stronger fibers than last season. Shirley Analyzer nonlint content is lower. Yarns spun from these samples are stronger. The average spinning yarn number is higher than last year.

Medium staple samples tested from the Southeast show stronger fibers than a year ago. Shirley Analyzer nonlint content is lower as is picker and card waste. Yarns spun from these samples are stronger. Appearance grades were lower as compared to last season. Average spinning potential yarn number is higher than a year ago.

South Central medium staple samples tested this season are shorter. Fiber strength is stronger than a year ago. Yarns spun from these samples were about the same, except for fewer imperfections than last season. Average spinning potential yarn number is higher this season.

Southwest medium staple samples tested to date show fiber properties to be about the same, except for weaker strength at zero gage than last season. Yarns spun from these samples show more imperfections. Average spinning potential yarn number is higher than last season.

Medium staple samples tested from the West show longer, finer and stronger fibers than last year at this time. Yarns spun from these samples are stronger and show fewer imperfections. Average spinning potential yarn number is higher than last year.

Average value for long staple samples tested to date show shorter and stronger fibers than a year ago. Picker and card waste is lower, however, comber waste is higher than last year. Yarns are stronger, with lower appearance grades than a year ago. Average spinning potential yarn number is higher.

Long staple samples tested from the Southeast are shorter and stronger than last season. Picker and card waste is lower. Comber waste is higher than last season. Yarns are weaker and have lower appearance grades. More imperfections were found as compared to last season.

Long staple samples tested from the West show shorter and stronger fibers than a year ago. Picker and card waste is lower. Comber waste is higher than last season. Yarns are weaker and show lower appearance grades. Average spinning potential yarn number is higher.

Extra long staple samples tested from the West show stronger fiber properties at Zero gage strength. Shirley Analyzer nonlint content is lower. Picker and card waste is lower than a year ago. Comber waste is higher than last year. Yarns are weaker and show lower appearance grades and more imperfections than last year.

Averages of fiber and processing tests from selected gin points in the United States through November 3, 1972

Table 1.--Cotton:

	2.	Spin. Potent.	Yarn No.	37 48	62 68 68	- 4 <b>-</b> 99	59 63	58 66	62 66	m
ılts	5	-		. + ~		0.00				
t resu	ity	Appear-Imperf- ance ections	No. d Yarn		19	. 20	19	<b>22</b> 16	20	a
ing tes	Yarn quality	Appear ance	Index	121	110	113	121	120	115	5
Processing test results	Yar	Skein str.	Lbs.	85 95	103	105	103	105	104 106	4 (22s)
		P & C waste	Pet.	6. 8. 8.	0 5 6 8 8 10	5.0	6.0	5.5	5.7	0.5
,		S A nonlint	Pct.	3.4.0	3.4	2.9	 	9.0	3.0	0.5
:	strength	1/8" gage	G/tex	20	<b>52</b>	22	52	22 24	22	7
results	Fiber	Zero gage	Mpsi	81	80 84	81 85	86 84	8 8 8 8	82	α
r test	Mike fino-	ness	Rdg.	4.0	٦٠ ٢٠ ٢٠	4.5	4.6	9.4	4.5	0.2
Fiber	raph	50/2.5 unif.	Pct.	45 45	44 72	45 45	9 <sup>†</sup> 1	14 14 14	t2 t2	N
	Fibrograph	2.5% span	Inches	98.0	1.08	1.11	1.07	1.08	1.09	0.02
	Lots	tested	No.	18	56 24	53	27	7	113	
,	Staple group Area, and	Crop year		Short Staple: Southwest 1971 1972	Medium Staple: Southeast 1971 1972	South Central 1971 1972	Southwest 1971 1972	West 1971 1972	U.S. Average 1971 1972	Significant dif- ference 2/

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples. Based on a limited number of samples of modal quality

Averages of fiber and processing tests from selected gin points in the United States through November 3, 1972  $_{\rm 1}/$  (Continued)

Table 1. -- Cotton:

٥٩	110	No	99	71	88	02 29				$\sim$	
10+0	comp	No	7	12	16	10	티	たり		CA	
Impre		No.	19	20	22 25	8 8				7	
lity		Indx mbed Ya	125 116	100	100	117	's Comb	130		5	
rn Qua	ca	Indx ed & Co	108	100	105 9 <b>2</b>	106	20			5	
	combed	Lbs. 2s Card	123 120	130	149 149	130 134		66			
74×0	carded	Lbs.	107	113	136	114	ma			4(22s)	
1		Pct.	16.6	16.2	13.8	15.9	ican Pi	17.1		0.5	
P&C	Waste	Pct.	9.4	888	7.8	9.0	Amer	8.0		0.5	1 2 4 2 5
SA Non-	lint	Pct.	4.1	4.5	a a a e	3.7		1.0		0.5	רייר
ngth		G/tx	23 23	24 25	56	24 25		33		1	4
		Mpsi	88 86	62	85 75 76	87		98		2	
Mik		Rdg.	†•† †•†	μ. μ. μ.	8 6 8 6	4.4	ray	ω ω ω ω		0.2	G
th:	Uni	Pct.	43 43	42 45	44	44 44	Arı	32		ત	100
Leng	Span	In.	1.16	1.21	1.20	1.17		1.47		0.02	, C
Lots		No.	9	<b>–</b> а	αrv	677		4 %	,		
Staple group, Area, and	Crop year		Long Staple: Southeast 1971 1972	South Central 1971 1972	West 1971 1972	U. S. Average 1971 1972	Extra Long Staple:	West 1971 1972		Significant Difference 2/	1 December 25
	Lots Mike Zeroll/8" Non Strength Strength Annearance Immrfctns	Lots Span Unif Mike Zero 1/8" Non- Waste Waste Carded combed carded combed carded combed carded combed comb	Lots Span Unif Mike Zero 1/8" Non- Waste Strength Combed Strength Appearance Imprfctns carded combed carded combed carded combed card combed No. In. Pct. Rdg. Mpsi G/tx Pct. Pct. Pct. Lbs. Lbs. Indx Indx No. No. 22s Carded & Combed Yarn	group, year         Lots         Lots         Span         Wike Zero   1/8"   Non- waste         SA P&C   Comber of Age of Age   Strength   Age of Age of Age of Age   Strength   Age of A	Part   Part	t 6 1.16 42 4.4 86 23 4.1 9.4 16.6 107 123 108 105 10 10 10 10 10 10 10 10 10 10 10 10 10	Lots   Lots	Lots   Length   Mike   Strength   Strength   Maste   Maste   Camber   Strength   Appearance   Impression   Init   Maste   Maste   Carded   Combed   Carded   Combed   Carded   Combed   Carded   Carded   Combed   Carded   Carded	No.   Lore   L	Lots   Length   Mike   Strength   SA   Pac   Combor   Strength   Appearance   Impricins   Inches   Span   Unif   Mike   Zero   1/6"   Non-   Waste   Maste   Combor   Strength   Appearance   Impricins   Inches   Inches	Lots   Span   Unit   Arrength   Strength   Strength   Maste   Aste   A

Based on a limited number of samples of modal quality Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples. नोला

Table 2 -- Cotton, American upland short staple: Quality characteristics by production areas, crop of 1972

	Spin. Poten-	tial	<u> </u>
ırns	Imprfect'ns	8s or 22sor 74 tx 27 tx	
Lts - Carded Ya	Appearance Index	8s or 22sor 74 tx 27 tx	
Processing Test Results - Carded Yarns	Elongation	<i>a a</i>	Pet Pet
Proces	Strength	s or 22s or 4 tx 27 tx	<u>Lbs</u>
-		Waste 8	Pet
	Color Raw Stock P & C	Yel	SI
		Gra	<u>8</u>
	S.A.	lint 	Pet
lts	Elon-	gat.n 1/8"	Pet
Test Results	Fiber	1/8" Gage	Mpsi G/tex
Fiber Tes	Str	Zero	Mpsi
		Mike	Rdg
	ital rranh	2.5% Unif	Pet
	Digital	2.5% span	티
		Stple	328
Production Area,	Classification	Sample Number Grade	Nation & Cone

WESTERN AREA NORTHWEST TEXAS

41 54 41 120 120 4.9 7.4 96 90 PERCENT 6.4 315 LANKART 57 21 7.2 92 4.4 24 1.00 30 42 WINTERS I SLM LT SP

1972
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y production
characteristics b
Quality
staple:
medium
upland
American
3Cotton,
Table

1	١.,	- 1						'								
	Spin. Poten-	tial			69	75	62	9	49	7.0	49	74	63	69	70	11
	Imprfect'ns	50s or 12 tx Mo	일		15	14	12	11	15	0	15	∞	10	18	10	16
arns	Imprf	t or	S		28	28	11	11	22	14	16	12	α	16	10	19
Carded Yarns		or x	일		70	70	80	7.0	80	7.0	06	06	06	7.0	70	70
Results - Ca	ונס א	22s or 27 tx	일		100	100	100	06	100	110	100	120	120	06	110	06
Test Resu	ation	50s or 12 tx	Fet		5.3	5.0	4.5	4.3	5.1	5.3	4.9	5.0	4.2	5.2	5.1	5.3
Processing Te	Elongation		Fet		7.2	9.9	4.9	6.1	6.7	6.1	6.2	1.9	6.1	6.7	<b>9.</b> 9	8 • 9
Proce	Strength	4 \	rps		35	44	32	31	32	39	40	38	33	41	38	41
		ממ	Pet Lbs		85 PERCENT 5.3 99	00 PERCENT 5.9 116	3 PERCENT 6.0 94	2 PERCENT 5.3 94	PERCENT	PERCENT	5 PERCENT 5.4 110	PERCENT	5 PERCENT	5 PERCENT 6.4 109	0 PERCENT 5.6 105	0 PERCENT 7.4 114
	핅	$\overline{}$	왕		3 85	100 3 5.	93	92	100	3 4.	85	100	3 5.	3 6.	3 5.	100
	Color Raw Stoc		일 		2	۳	4	۳	4	2	٣	8	-	m	2	2
	S.A.		Pct		1.7	3,3	3.4	1.8	2.9	1.9	2.5	2.7	2.8	3.7	2.6	3.2
lts	Elon-	1/8"	lct		NE 16 8.5	417	TONEVILLE 213	K ING III	7.2 T	NNE 16 8.5	201 5.8	201	201	417	7.3	7.8
est Results	Fiber rength	1/8" Gage	G/tex		DELTAPINE 22 8.	COKER 25	STONE 2	DIXIE 21	STONEVILLE 22 7.	DELTAPINE 24 8.	COKER 25	COKER 23	COKER 23	COKER 22	DELTAPINE 24 7	MCNAIR 24
Fiber Tes	Fiber Strength	Zero	Mpsi		14	88	80	84	78	81	81	98	88	82	87	0
		Mike	Rdg		4.1	4.1	4.2	3.9	4.7	4.3	4.6	9•4	6.4	3,8	4.4	4.0
	al graph	Unif.	Pet		43	4	43	45	46	45	47	4	46	74	11	4
	Digital Fibrograph	CA R	티		1.08	1.14	1.08	1.04	1.10	1.09	1.11	1.07	1.05	1.10	1.05	1.07
		Stple	32s	AREA	34	35	34	33	34	34	35	34	34	34	33	35
Area,	ber	Je			41	51	45	45	51	41	41	41	41	51	41	41
Production Area,	& Sample Number	No Grade Name & Code		SOUTHEASTERN	ALABAMA CHEROKEE	DEATSVILLE 2 LM	JEFF 2 SLM LT SP	TONEY 1 SLM LT SP	TUSCUMBIA 1 LM	TUSKEGEE 2 SLM	TYLER 2 SLM	GEORGIA COLBERT 1 SLM	GCUGH 2 SLM	PINEHURST 2 LM	SHELLMAN 2 SLM	NORTH CARCLINA LAURINBURG 1 SLM

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Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972--(Continued)

		Spin.	Poten- tial	No	70	76		72	63	62	63	63	67	61	63	61	61	63
		Imprfect'ns	50.5	N N N	15	14		12	12	9	01	16	12	14	11	16	14	6
Yarns		Imprf	22s or	N N	22	18		17	15	- 11	13	21	16	21	19	18	19	12
Carded Y		X	50s or	NS CX	80	7.0		100	100	100	100	06	100	90	100	06	06	100
-   -	Annearance	Index	22s or	No	100	100		120	130	130	120	120	120	120	120	120	120	120
Test Results		tion	50s or	5	5.3	5.3		5.4	4.3	4.4	5.0	5.0	4.4	ن 4	4.7	3.9	4.4	3.9
		Elongation	22s or	اد	9•9	6.9		- 4.9	5.6	5.6	5.9	6.2	5.9	5.6	0.9	5.3	5.5	5.1
Processing		ugcu	50s or	-	04	47		44	34	36	39	41	37	33	37	34	38	34
			Waste 22s or 27 tx		O PERCENT 5.8 105	100 PERCENT 6.4 124		0 PERCENT 5.2 116	98 PERCENT 6.1 99	100 PERCENT 5.5 102	100 PERCENT 6.0 106	90 PERCENT 5.5 108	00 PERCENT 6.2 103	0 PERCENT 6.3 102	0 PERCENT 6.2 103	0 PERCENT 5.9 97	100 PERCENT 6.2 104	10 PERCENT 5.4 99
	or		Yel w	임 임	100	100		100	3 6	3 5	100	90	100	100	100	100	100	80
	Color	Raw Stock	Gra	읾	2	3		~	S	2	7	2	4	4	4	7	2	, r
		Non-	Lint	Pet	3.7	3.7		2.4	3.9	2.7	2.8	2.6	3.5	2.2	3.2	3.0	3.8	2.7
Test Results		Т	1/8"	ex Pct	R 201	R 417 6.6		DELTAPINE 16 25 8.4	STONEVILLE 213 22 7.1	STONEVILLE 213 22 6.6	. 16 23 7.1	DELTAPINE 16 24 7.2	STONEVILLE 213 23 7.6	STONEVILLE 213 23 7.0	STONEVILLE 213 23 7.3	COT 4 21 6.2	STONEVILLE 7A 21 5.8	SL-66 21 6.8
Test Re	Fiber	ng.	1/0 Gage	G/tex	COKER 22	COKER 25		DELT 2	STON 2	STON 2	DPL 2	DELT 2	STON 2	STON 2	STON 2	BRYCOT 21	STON 2	REX
Fiber	Ē	Stren	Gage	Mpsi	83	93		85	87	83	85	06	85	06	85	88	84	88
		M: Jr	мтке	Rdg	4 4	3.7		4.6	4.2	5.1	4.2	4.6	4.6	4.3	4.0	4.2	4.0	4.4
	a.1	raph	Unif.	Pct	8	45		94	45	46	45	4	47	41	47	4	45	4
	Digital	H (		In [In	1.10	1.11		1.14	1.07	1.12	1.10	1.11	1.10	1.07	1.07	1.09	1.12	1.07
			Stple	32s (Conti	34	35	AREA	35	34	35	35	35	35	34	34	34	35	34
Area,	r o		le	REA	A 4 1	51		41	51	41	AYOU 41	41	51	51	51	41	51	51
Production Area, Classification	& Sample Number	L	Name & Code	32s In SOUTHEASTERN AREA(Continued)	SOUTH CAROLINA ST.MATTHEWS 2 SLM	YORK I LM	SOUTH CENTRAL ARKANSAS	ALTHEIMER 2 SLM	BAY 2 LM	DUMAS 2 SLM	FRENCHMANSBAYDU 2 SLM 41	GRADY 1 SLM	HELENA 1 LM	HUGHES 2 LM	LEACHVILLE 2 LM	LEACHVILLE 2 SLM	OSCEDLA 2 LM	PARK IN I LM

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Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

1							<b>-</b> 9								
	Spin.	foten-	ଥ୍ର	6 5	62	57	57	62	65	73	65	69	63	72	7.0
	Imprfect'ns	50s or	<u>8</u>	œ	17	10	13	13	15	٥	14	7	25	15	10
Yarns	Impr	22s or 27 tx	S	15	56	15	19	50	16	12	19	11	23	16	11
Carded Y	ance	50s or 12 tx	No	90	1 90	06	100	100	80	80	10	06	70	70	06
Results - C	Appearance Index	22s <b>or</b> 27 tx	No	120	120	120	130	130	120	110	100	120	06	100	120
Test Resu	Elongation	50s or 12 tx	Pct	4 8	8	4.3	4.8	4.5	5.4	5.2	4.7	4.8	6.4	5.0	5.0
Processing Te	Elong	22s or 27 tx	Pct	0.9	4.9	5.5	5.8	5.7	6.3	6 • 8	9.9	4.9	6.5	7.0	6.1
Proce	Strength	50s or 12 tx	I.bs	41	37	32	37	34	39	41	37	37	35	30	41
	Stre	22s or 27 tx	Lbs	CENT	PERCENT 5 106	PERCENT 6 93	CENT 102	PERCENT 6 98	CENT 103	PERCENT 3 114	PERCENT 7 105	PERCENT 7 106	CENT 100	PERCENT 9 110	CENT 112
	ا مح د	Wast	Pct	100 PERCENT 5.9 112	100 PER	90 PER	100 PERCENT 5.0 102	95 PER 5.6	100 PERCENT 5.0 103	100 PER(6.3	90 PER	85 PER	100 PERCENT 5.8 100	100 PER 6.9	100 PERCENT 5.7 112
	Color	Yel	ON ON	2	3 1(	m	3 1	en .	3	1 2	m	m	3	3 1	2
	CO	Gra	No	4	3	æ	9	6	7	2	-	2	-	2	~
	S.A.	Non- Lint	Pet	3.3	2.8	3 2.0	2.3	2.0	2.0	2.7	3 2.3	3 2.1	2.0	3.4	3.2
t s	Elon-	gat'n 1/8"	Pet	NE 16 8.4	NE 16 7.6	LLE 213 6.6	NE 16 7.9	NE 45A	NE 16 8.1	NE 16	LLE 21 7.4	LLE 213	NE 16	NE 16	NE 16
st Results	er	gtn 1/8" Gare	G/tex	DELTAPINE 24 8.	DELTAPINE 16 24 7.6	STONEVILLE 21 6.0	DELTAPINE 16 23 7.9	DELTAPINE 21 7	DELTAPINE 23 8.	DELTAPINE 25	STONEVILLE 22 7.4	STONEVILLE 23 7.	DELTAPINE 22 7	DEL TAPINE 24	DEL TAPINE 25
Fiber Tes	Fiber	Zero 1/	Mpsi	88	98	48	88	82	4	8.8	8.3	82	81	85	4.
Fi		Mike	Rdg	4.1	4.5	4.7	4.5	4.5	4.3	4.5	4.2	4.7	4.5	4.1	4.7
		T 4:	Pet	45 4	45 4	7 94	45	7 7 7	43	45 4	7 5 7	7 24	43 4	7 64	- 94
	Digital	<u>a</u>													
_	Di		In In	1.09	1.07	1.07	1.06	1.09	1.12	1.12	1.09	1.13	1.10	1.09	1.09
		Stple	32s (Cont	34	34	35	35	34	35	35	35	35	35	3.4	34
Area,	3C10H	Tagil	AREA-	51	41	14	45	41	41	41	41	41	41	41	41
Production Area,	Classiiication &	No Grade	SOUTH CENTRAL AREA-(Continued) ARKANSAS-(Continued)	WILSON 2 LM	WYNNE 1 SLM	LOUSIANA LAFAYETTE 1 SLM	MONROE 1 SLM LT SP	OPELOUSAS 1 SLM	SHREVEPORT 1 SLM	MISSISSIPPI BELZONI 2 SLM	BRUCE 2 SLM	EDWARDS 2 SLM	GUNNISON 2 SLM	HERNANDO 1 SLM	INDIANOLA 2 SLM

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Spin. Potential 욁 65 99 7 2 67 62 69 70 64 65 99 7 50s or 12 tx No Imprfect'ns 9 12 8 14 1 12 20 16 14 13 20 11 22s or 27 tx 22 8 19 ď 12 61 15 24 15 23 11117 읽 - Carded Yarns or 90 70 20 70 80 70 90 70 20 70 90 70 50s on 12 tx Appearance N N 22s **or** 27 tx 100 120 100 120 100 100 100 100 120 90 90 90 읾 Results or50s or 12 tx 4.5 5.0 4.5 4.8 4.8 4.8 4.5 5.8 5.3 5.3 4.7 5.7 Elongation Pct Processing Test 22s or 27 tx or 5.8 6.6 6.5 6.5 4.9 6.2 5.8 7.4 6.9 6.8 6.3 7.2 Pct 50s or 12 tx Lbs 35 35 37 36 38 37 39 35 37 37 31 37 Strength 22s or ţχ 90 PERCENT 5.6 103 95 PERCENT 6.0 105 98 PEPCENT 4.8 102 Lbs 102 105 102 103 100 107 100 PERCENT 5.0 109 95 100 PERCENT 6.0 111 100 PERCENT 7.2 107 100 PERCENT 104 75 PERCENT 4.6 105 100 PERCENT 7.0 99 98 PERCENT 100 PERCENT 5.8 95 95 PERCENT 6.2 P & C Waste 6.1 5.7 5.4 Pet Raw Stock Gra | Yel S N 6 6 3 2 3 6 6 3 3 3 m m Color 읽 2 2 3 7 2 3 ~ ~ 2 2 \_ S.A. Non-Lint 2.7 2.5 2.1 1.7 REX SMOOTH LEAF 22 6.6 2.9 4.1 1.7 3.3 2.8 1:1 3.4 Pct 6.9 3.7 DIXIE KING III 25 5.3 ' STONEVILLE 213
23 6.9 STONEVILLE 213
23 7.1 STONEVILLE 213 STONEVILLE 7A 23 6.6 DELTAPINE 45A 22 7.9 DELTAPINE 16 22 7.9 23 8.0 DELTAPINE 16 21 8.4 gat'n 1/8" DELTAPINE 16 24 7.9 DELTAPINE 16 24 8.5 DELTAPINE 16 22 8.3 Elon-Pct Fiber Test Results G/tex 1/8" Gage 23 Strength Fiber Zero Gage Mpsi 83 89 82 75 8 76 92 84 86 87 83 82 4.3 Mike 4.0 3.9 4.1 4.0 4.1 4.3 4.8 4.8 4.1 Rdg 4.5 4.6 Unif. 44 63 45 45 Digital Fibrograph Pct 46 46 45 43 43 44 42 5 SOUTH CENTRAL AREA -- (Continued) 1.09 1.07 2.5% span 1.11 1.09 1.10 1.09 1.07 1.10 1.09 1.06 1.07 티 Stple 32s 34 34 35 35 MISSISSIPPI -- (Continued) 35 35 35 35 34 35 35 34 1 7 7 7 41 Production Area, 41 41 41 51 41 51 41 Classification 51 Sample Number Grade Name & Code WATER VALLEY
2 SLM SOMERVILLE 1 SLM 2 SLM MILLINGTON 2 SLM SIKESTON 1 LM INDIANOLA TRIBBETT RIDGELY 2 SLM TRALAKE 2 SLM TENNESSEE LELAND 2 LM TUNICA 2 LM SENATH MISSCURI SARDIS 2 SLM 2 SLM 1 SLM 2 LM

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972--(Continued)

								- 11	-								
ı	Spin.	Poten- tial	NO NO		65			57	19	53	59	80	7.7	57	72	79	
1	Imprfect'ns	50s or	<u></u>		14			17	δ	16	12	6	10	11	9	6	
Yarns	Imprf	22s or 27 tx	NO		15			20	10	22	17	12	12	16	10	14	
Carded Ya	ance	Os or	OI.		06			06	100	70	06	100	100	06	100	1 00	
1	Appearance Index	22s or 27 tx			120			120	120	120	120	130	120	120	120	120	
Test Results	ation	50s or	Pct		5.5			3.9	5.8	3.9	6.4	4.8	6.4	3.9	5.0	5.2	
Processing Te	Elongation	22s or 27 tx	Pet		5.7			5.7	7.0	5.2	5.7	5.4	5.7	5.4	5.6	5.8	
Proces	ngth	50s or			34			31	40	30	40	51	51	32	52	52	
	Strength	22s or 27 tx	Lbs		PERCENT 6 97 5 105			PERCENT	PERCENT *	PERCENT 4 93	RCENT 105	PERCENT	RCENT 124	PERCENT	RCENT 128	RCENT 129	
	7 % C	Waste	Pet		95 PE 5.6 5.5			94 PE 5.3	100 PE	100 PE 6.4	100 PERCENT 4.8 105	100 PE 5.1	100 PERCENT 5.4 124	70 PE 5.2	100 PERCENT 5.0 128	100 PERCENT 4.6 129	
	Color Raw Stock	Yel	SI SI		2 2			4	6	2	m	m	60	6	m	m	
	Co Raw	Gra	<u>8</u>		77			2	1	ιc	end	-	-	-	1	-	
	S.A.	Non- Lint	Pct		3.1			2.4	1.7	2.9	2.0	2.3	2.4	2.0	2.1	2.4	
ts	Elon-	gat'n 1/8"	Pct		NE 16 7.2 8.3			NE 16 6.5	NE 16 8.6	NE 16	NE 16	5.4-1	5.9-1	NE SL	5.6	5.6	
Test Results	er gth	1/8" Gage	G/tex		DELTAPINE 16 21 7.2 22 8.3			DELTAPINE 22 6.	DELTAPINE 16 22 8.6	DELTAPINE 16 23 7.1	DELTAPINE 24 7.	ACALA S	ACALA S	DELTAPINE SL 23 6.2	ACALA S	ACALA S	
Fiber Te	Fiber Strength	Zero	Mpsi		84			88	80	83	06	95	102	86	16	96	
		Mike	Rdg		4.1			4.8	4.3	4.6	4.1	4.6	4.2	4.7	4.4	3.9	
3	al graph	Unif.	Pet		4 4 4 4 4			45	45	44	44	4 5	47	45	94	4	
	Digital Fibrograph	2.5% span	티		1.10			1.08	1.09	1.10	1.11	1.10	1.14	1.08	1.13	1.08	
		Stple	32s	AREA	35	A D CA	K L	34	36	34	35	35	36	34	35	35	
rea, ion	er			•	41		•	31	31	36	31	31	31	31	31	31	
Production Area, Classification	& Sample Number	No Grade Name & Code		SOUTHWEST CENTRAL TEXAS	NAVASOTA 1 SLM 2 SLM	a a u	ARIZONA	PARKER 1 MID	SAFFORD 1 MID	STANFIELD 1 MID LT GR	YUMA 1 MID	CALIFORNIA BAKERSFIELD I MID	BAKERSFIELD 1 MID	BRAWLEY 1 MID	CORCORAN 1 MID	WASCO 1 MID	
			•	٠, ٥		-	_ ~					_					

<sup>\* 100</sup> percent selected for tests, less than 100 percent in the area.

Table  $^{\dag}$  --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1972

1	1	ı												'		
		Spin.	tial	8		54	99		18		79	06	89	98	85	
		t'ns	50s or 12 tx	8		10	10		13		14	19 13	24 12	20	20	
	arns	Imprfect'ns	22s or 27 tx	&		19	9 5		15		15	25 14	26 15	26	35 16	
-	Carded Yarns		50s or 12 tx	&		70	100		90		70	222	70	70	70	
	1	Appearance Index	22s or 27 tx	%   %		100	110		90		06	900 900 900	100	06	90	
	Processing Test Results	tion	50s or 12 tx	Pet		5.0	5.2		5.0		5.1	5.3 5.9	5.0	5.0	5.0	
	sing Te	Elongation	22s or 27 tx	Pet		5.8	6.5		5.9		4.	6.5 7.1	4.9	6.1	6.3	
	Proces	th	50s or 12 tx	Lbs		25 37	33		44 51		20	22 28 28	58	4 8 5 5	4 8 5 6	
		Strength	22s or 27 tx	Lbs		CENT 87 109	CENT 99 114		CENT 116 132		PERCENT 1/2	132 132 148	PERCENT 1/ T 130 5 148	CENT 126 141	128 158 158	
		P & C and	Comber Waste	Pet		100 PERCENT 8.2 87 k 21.2 109	90 PERC 8.6 17.8		100 PERCI 8.9 16.4		100 PER	15.9 6.1 15.1	100 PER 7.T : 14.5	75 PERCENT 6.8 126 15.4 141	91 PER 7.4 16.5	
		lor Stock	Yel	울		3 *	m *		2 *		_	* *	* *	m *	m *	
		Color Raw St	Gra	울		m	2		æ		-	-	2	-	7	
		S.A.	Lint	Pct		2.6	3.3		4.5		1.7	1.7	3.0	2.2	2.9	
	ω	Elon-		Pet		310	310		310		1517-70	6.9	1517-V 6.3	1517-C 6.2	1517-70	
	t Results	er gth	1/8" Gage	G/tex		COKER 3 24	COKER 3		COKER 3 24		ACALA 1	25	ACALA 1 27	ACALA 1 27	ACALA 1 25	
	Fiber Test	Fiber Strength	Zero Gage			85	84		16		93	91	46	85	60	
	H		Mike	Rdg		4 • 4	3.9		4		3.7	3.7	4.0	4.5	6.4	
		L) tph	Unif.	Pct		43	43		4		24	44	75	9 4	4	
		Digital Fibrograph	2.5% span	티		1.04	1.09		1.18		1.15	1.21	1.19	1.18	1.16	
ľ			Stple	32s	AREA	34	34	AREA	37	AREA	37	37	37	37	37	•
	rea, ion	er		(,,,	A	4 1	51		51	Ā	31	31	41	31	14	
	Production Area, Classification	& Sample Number	No Grade Name & Code		SOUTHEASTERN	ALABAMA ORRVILLE 3 SLM	SULLIGENT 2 LM	SOUTH CENTRAL	MISSISSIPPI MORGAN CITY 2 LM	WESTERN	NEW MEXICO ARTESIA 1 MID	2 MID	HAGERMAN 1 SLM	WEST TEXAS EL PASO I MID	EL PASO 1 SLM	, V

\* Comber Waste and Combed Yarn Data  $\underline{1}/$  100 percent selected for tests, less than 100 percent in the area

Table 5--Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1972

	su.	Os or 7 tx	욄		e	4	2
	Imprfect'ns	s or 80	1		2	4	3
		or 50; x 12	읾				
arns	Appearance Index	80s 7	욁		130	120	120
mbed }	Appes Ind	50s or 12 tx	욁		120	5.1 110	110
ts - Cc	tion	Bos or 7 tx	Pet		5.4		5.0
Resul	Elongation	50s or 12 tx	Pet		36 6.1 5.4 120	6.1	5.7 5.0 110
ng Test	gth	30s or 7 tx	<u>sqr</u>		36	35	35
Processing Test Results - Combed Yarns	Strength	50s or 80s or 50s or 80s or 50s or 80s or 50s or 80s or 12 tx 7 tx 12 tx 7 tx 12 tx 7 tx	Ibs		49	63	63
щ	Comber	Waste Waste 50s or 80s or 50s or 80s or 80s or 50s or 80s or 12 tx 7 tx	Pct		17.5	ENT 17.7	
	Color Raw Stock P & C Comber	Waste	Pct		98 PERCENT 6 8.2 17.5	99 PERCENT 6 6.6 17.7	100 PERCENT * 7.0 17.6
	or tock		읾		•	•	9 9
			No.		4	5	
	Elon- S.A.	Non- Lint	Pet		2.6	1.7	1.5 4
ω.	Elon-	gat'n Non- 1/8" Lint	Pct		9.5	4 8.6	PIMA S-4 33 8.5
esult		1/8" Gage	G/tex		PIMA S-4	PIMA S-4	1A S-4
Test F	Fiber Strength					PIM 31	PIM 33
Fiber Test Results	Str	Zero Gage	Mpsi		100	103	16
		Mike	Rdg		4.0	3.4	4.0
	Sh Sh	CΛ	Pet		32	33	30
	Array Length	UQL	디		1.52	1.50	1.38
		Stple	32s	AREA			
rea,	er			A	4	44	44
ion A ficat	& le Numb	Grade e & Cod			۸ 4	6	m
Production Area, Classification	& Sample Number	No Grade Name & Code		WESTERN	WEST TEXAS EL PASO 1	EL PASO	PECOS 1

\* 100 percent selected for tests, less than 100 percent in the area

